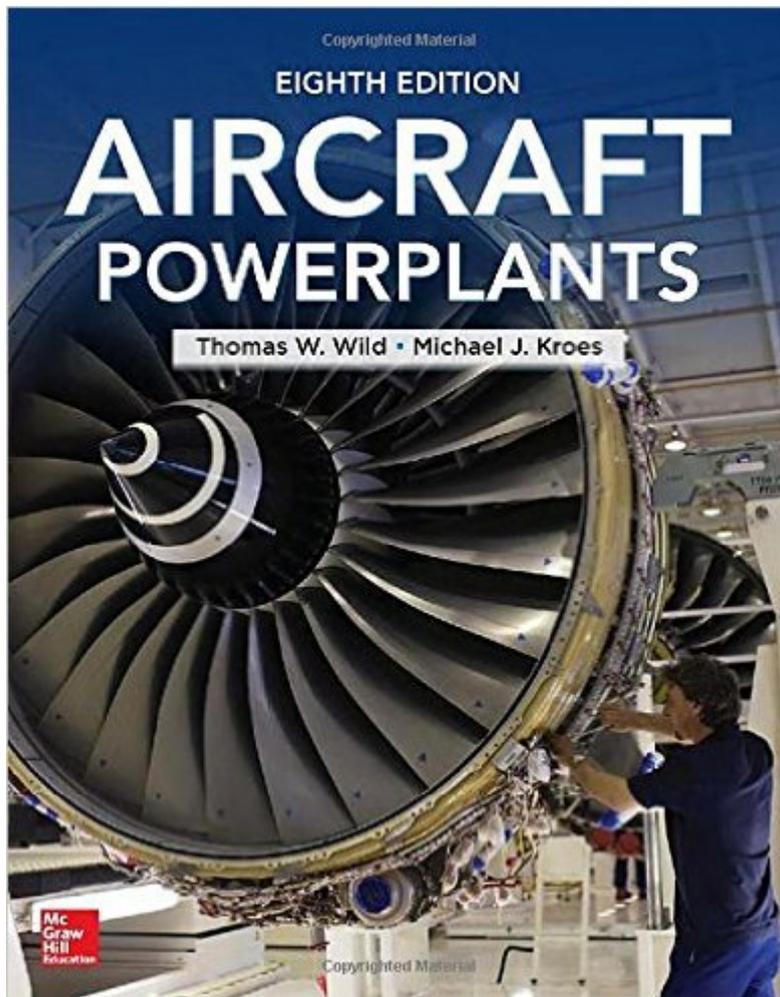


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# Aircraft Powerplants, Eighth Edition



## Synopsis

The most comprehensive, current guide to aircraft powerplants Fully revised to cover the latest industry advances, *Aircraft Powerplants, Eighth Edition*, prepares you for certification as an FAA powerplant technician in accordance with the Federal Aviation Regulations (FAR). This authoritative text has been updated to reflect recent changes in FAR Part 147. This new edition features expanded coverage of turbine-engine theory and nomenclature; current models of turbofan, turboprop, and turboshaft engines; and up-to-date details on turbine-engine fuel, oil, and ignition systems. Important information on how individual components and systems operate together is integrated throughout the text. Clear photos of various components and a full-color insert of diagrams and systems are included. Review questions at the end of each chapter enable you to check your knowledge of the topics presented in this practical resource. *Aircraft Powerplants, Eighth Edition*, covers:

- Aircraft powerplant classification and progress
- Reciprocating-engine construction and nomenclature
- Internal-combustion engine theory and performance
- Lubricants and lubricating systems
- Induction systems, superchargers, turbochargers, and cooling and exhaust systems
- Basic fuel systems and carburetors
- Fuel injection systems
- Reciprocating-engine ignition and starting systems
- Operation, inspection, maintenance, and troubleshooting of reciprocating engines
- Reciprocating-engine overhaul practices
- Gas-turbine engine: theory, jet propulsion principles, engine performance, and efficiencies
- Principal parts of a gas-turbine engine, construction, and nomenclature
- Gas-turbine engine: fuels and fuel systems
- Turbine-engine lubricants and lubricating systems
- Ignition and starting systems of gas-turbine engines
- Turbofan, turboprop, and turboshaft engines
- Gas-turbine operation, inspection, troubleshooting, maintenance, and overhaul
- Propeller theory, nomenclature, and operation
- Turbopropellers and control systems
- Propeller installation, inspection, and maintenance
- Engine indicating, warning, and control systems

## Book Information

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## Customer Reviews

I'm writing this review not from the perspective of an Airframe and Powerplant student, but rather from the perspective of a pilot. I found this book to be very informative and well worth reading to expand a pilots knowledge of engine operating techniques. While it's probably a bit beyond what is required, I can't stress enough to students and fellow pilots that the more they know about the heart of their airplane. The knowledge presented in this book is applicable to nearly all aircraft engines in operation, in fact I can't think of one that isn't really covered except a scram jet.

The book is paperback. Which is fine, but this book is over 300 pages. The spine of the book begins to tear the more you use the book because of how large the book is. Also, the book was very comprehensive. It definitely helped me pass my propulsions class! I would recommend getting this book

This text has had MAJOR updates since the last edition. It is going to help me with several classes. The book was in great condition and arrived on time.

would be better if it had higher quality pictures, more color pictures, less page jumping for diagrams and pictures for examples.

The book fulfilled my expectations. Every topic about aircraft powerplants are there.

Great source of information, from a future amt and aeronautical engineer it has a lot of information about the essential parts and complex parts of the different powerplants

Pictures are hopeless crushed into left corner and unreadable. Otherwise appears well written. In current form not recommended unless poor visuals are addressed

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